

# A Multi-Pronged Approach towards Small Modular Reactor Regulation

Context, Background & Objectives

# Overview



CENTRE FOR INTERNATIONAL LAW  
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- CIL & Nuclear Law & Policy Research
- Nuclear Governance & the ASEAN Context
- Background & Objectives

# CIL & Nuclear Law & Policy Research

- New focus area for CIL
- Main focus – nuclear safety, security & liability
- Legal & institutional frameworks
- International & ASEAN level
- Cross-cutting issues e.g. marine-based Small Modular Reactors (SMRs)

# Nuclear Governance & the ASEAN Context

- SMR deployment is a potential option
- Building of capabilities (APAEC Phase II)
  - emerging nuclear technology such as SMR technology
  - legal & regulatory frameworks
- Commitment to following international rules, standards & practices
- Role of ASEAN Network of Regulatory Bodies on Atomic Energy (ASEANTOM) & the Nuclear Energy Cooperation Sub-sector Network (NEC-SSN)

# Background

- The case for SMRs
  - Enhanced safety, security & flexibility?
  - Lower investment/capital risk?
- Risk factors
  - Global market outlook uncertain
  - Supply chain maturity
  - Ability to finance
  - Competition from other low-carbon options

# Background

- Regulatory challenge
  - What is required for effective & efficient licensing & regulatory processes?
  - Is there scope to streamline licensing & regulation & if so how?
- Need for international collaboration & cooperation
  - Regulatory bodies & industry

# Objectives

- Provide overview: the activities & initiatives of the **SMR Regulators' Forum**, including the potential legal challenges associated with SMR deployment to be addressed.
- Highlight: licensing model study undertaken by **Fermi Energia** for SMR deployment in Estonia.
- Discuss: **Barakah Nuclear Power Plant** licensing & regulatory experience in the UAE.

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